

# RPM News

## ▲ Remedial Project Manager News ▲

"COMMUNICATING NAVY INSTALLATION RESTORATION PROGRAM NEWS AND INFORMATION AMONG ALL PARTICIPANTS"



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By Richard G. Mach Jr., P.E.

The Alternative Restoration Technology Team (ARTT), a Naval Facilities Command (NAVFAC) team consisting of members from each of the Engineering Field Division/Activities (EFD/As), Naval Facilities Headquarters (NAVFAC HQ), Naval Facilities Engineering Service Center (NFESC), Chief of Naval Operations (CNO), and Commandant of the Marine Corps (CMC), has acquired access to Remedial Technologies Network's (RTN) Remediation Information Management System (RIMS) for all Navy personnel through January 1, 2000. RIMS2000 is an Internet accessible system containing information on over 880 technologies and may be accessed at [www.rims2000.net](http://www.rims2000.net). This site allows the users to view valuable cost and performance information on each of these technologies, search the database to limit the number of appropriate technologies for a given set of site parameters, and provides backup information and published articles regarding

the technologies. Use of this technology tool has the potential to save significant cost to the Navy's cleanup program by reducing technology screening timeframes and providing direct technology comparability.

### Technology Description

RIMS2000 is an on-line library service containing comprehensive information relating to site remediation technologies. This system contains summaries of over 880 existing, emerging and innovative remediation technologies, along with case studies, third-party evaluations, peer review articles, scientific studies, as well as, technical and cost reports. There is a dedicated group within RTN who provide third-party reviews of all technology information before updating the system. RIMS2000 is updated on a monthly basis, keeping it current with the fast growing technology market.

*continued on page 2*

## RPM NEWS

Remedial Project Manager News

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Using Appropriated Funds

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*"RIMS2000 is here!"  
continued from page 1*

### Successful Use of RIMS

RIMS was first presented to ARTT in February 1999. The ARTT members were extremely impressed with the system capabilities and were able to arrange for a free trial period of the system for all NAVFAC employees. During this free trial period in April 1999, access was also granted to OHM Remediation Services, Inc. (OHM) to support two Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) removal actions at Naval Air Station (NAS) North Island. OHM was able to use RIMS for one week and complete the entire technology screening to support a Time Critical Removal Action (TCRA) for source reduction of volatile organic compound (VOC) in groundwater at Site 5 and a non-TCRA for risk reduction of heavy metals and radium in soil/sediment at Site 10. During this free trial period, the print function was not available. Therefore, OHM immediately purchased a license to use RIMS for \$1,000 and completed the Action Memoranda and Engineering Evaluation/Cost Analysis (EE/CA) for these two actions. OHM has projected that use of RIMS saved approximately four weeks off the project schedule for Site 5 at a cost savings of approximately \$6,000 and saved approximately one week off the project schedule for Site 10 for an additional cost savings of approximately \$1,500. OHM has stated that the extensive library of technologies in RIMS reduced project cost and schedule by focusing the evaluation process.

### Technology Demonstration Continues

Following the successful demonstration of RIMS in April 1999, RTN made significant upgrades to the system, the most noteworthy being transformation to a web-based system. RIMS2000 went onto the Internet in July 1999, at which time, the Navy was granted unlimited free access until January 1, 2000. This extended free trial period allows complete access to all of the system features, including the print function. All Remedial Project Managers (RPMs) and Remedial Technical Managers (RTMs) are encouraged to use this system throughout this demonstration period.

### The Future of RIMS2000

ARTT is currently writing a White Paper to the Installation Restoration (IR) program managers recommending the purchase of RIMS2000 access to all RPMs, RTMs, and other pertinent Navy personnel to continue beyond January 1, 2000. If there are any recommendations regarding this system, please forward those on to your organization's ARTT representative.

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# Innovative Technology applied at NWS Yorktown

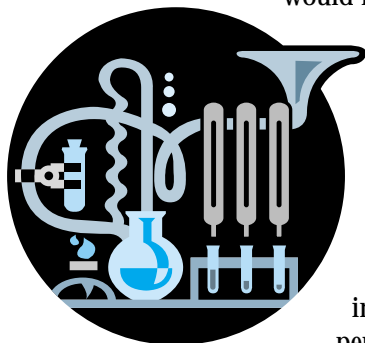
The Navy has successfully implemented an innovative process to remediate soil contaminated with high concentrations of organic explosives, as well as the organic solvent trichloroethene (TCE). Naval Weapons Station (WPNSTA) Yorktown Site 6 is the location for a full-scale biological treatment process that is currently operating effectively. This site is primarily contaminated with explosive compounds (nitramines/nitroaromatics) including trinitrotoluene (TNT), cyclonite (RDX), and beta-HMX. Other contaminants specific to WPNSTA operations include fuels and degreasers such as TCE.

The WPNSTA Team has executed multiple Records of Decision (RODs) using innovative biological treatment technologies. These treatment technologies destroy contaminants using native organisms found in soil, sediment, and water, as opposed to conventional technologies such as removal and offsite disposal or the creation of onsite landfills. By using innovative technologies, the Team seeks to limit future WPNSTA Yorktown waste management.

A Record of Decision (ROD) for this site has been implemented utilizing innovative technologies to treat explosive and TCE contaminated soil. This project used matching funds provided by the cleanup contractor. The solicitation of matching funds from providers like

W. R. Grace for their proprietary DARAMEND treatment process has provided cost savings of approximately \$200,000. This technology, which has received international attention, will save the Navy \$1.5 to \$2.0 million over the next best cleanup alternative - off-site incineration.

The WPNSTA Team utilized the Naval Facilities Engineering Service Center's (NFESC's) Broad Agency Agreement (BAA) Program to contract with W.R. Grace to use the proprietary DARAMEND process. DARAMEND was developed in Canada, and if not for the efforts of the WPNSTA team and use of the BAA process, access to it would not have been possible.



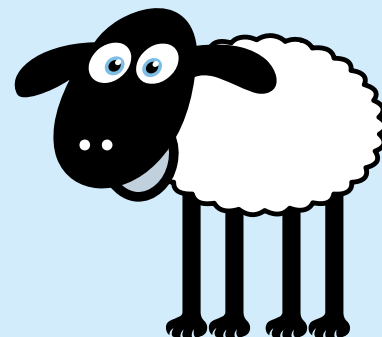
DARAMEND treats contaminated soil by inducing repeated cycles of anaerobic and aerobic conditions through the addition of soil amendments, treated in a land farm with periodic tilling. Successfully achieving a 97 percent reduction in organic explosives over a short time.

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## NFESC's BAA Program Offers Solutions to the DoD



The Broad Agency Announcement (BAA) program was developed over three years ago and introduced as an easy, flexible and streamlined solicitation method for Department of Defense (DoD) activities worldwide. Administered by Naval Facilities Engineering Service Center (NFESC), the BAA makes it easy to acquire and apply innovative and cost effective environmental technologies and methodologies at DoD sites. NFESC has already evaluated and pre-qualified approximately 325 environmental technologies and methodologies. These technologies and methodologies are innovative and are in the advanced development stage, ready for field application proposed by private vendors and universities. All DoD employees can view the vendor abstracts that have been pre-approved for a contract by accessing the DENIX web site:

<http://www.nfesc.navy.mil/denix/DOD/News/Navy/BAA/baa.html>

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# Early Transfer Success

## At Oakland

Engineering Field Activity (EFA WEST) and its Comprehensive Long-Term Environmental Action Navy (CLEAN) contractor, Tetra Tech EM Inc. (TtEMI), recently achieved an unprecedented milestone: successful transfer of the Fleet Industrial Supply Center (FISC) Oakland to the Port of Oakland three years ahead of schedule. The Port had been seeking to expand the capacity of its seaport operations in order to compete more effectively with other Pacific Rim ports, such as Long Beach and Seattle. The Port's redevelopment plan, "Vision 2000", includes use of all 530 acres of FISC Oakland property will open the way for major expansion of the Port's maritime activities and will secure its position as the nation's fifth busiest port.

The rapid transfer was largely a result of the team's commitment and results-oriented approach. As a result, the Port will be able to meet its Vision 2000 schedule and begin construction of new marine terminals that will generate new revenue and jobs in the San Francisco Bay area.

### Project Summary

When the decision was made to close the installation, the Port and the Navy negotiated an agreement that allowed the Port to lease portions of FISC Oakland for immediate reuse concurrent with the Navy's continued environmental investigations and cleanup.

Early on, EFA WEST, TtEMI, Port officials, and the regulatory agencies agreed to an aggressive schedule so that interim leasing and redevelopment could begin immediately. To meet this schedule, the FISC Oakland team found ways to significantly streamline the process.

- Starting with a total of 25 on-shore sites and one offshore sediment site, the team presented a clear rationale and obtained approval for no further action decisions at 16 sites, including the offshore sediment site.
- For the 10 sites requiring additional characterization, all parties agreed to focus the data collection and analysis only on the industrial reuse planned, rather than collecting additional data for other alternative-reuse scenarios.
- Where contamination was detected, it was immediately and fully removed, either during the course of investigations or through more extensive removal actions. Confirmation sampling following the actions ensured that all the contamination was removed.
- A streamlined process for review and comment on data and proposed approaches was established. For example, data was often discussed and decisions made during the technical meetings in lieu of a comment period.



### Regulatory Requirements/Community Involvement

In the words of the Port of Oakland President, "Cooperation among local, state, federal and military agencies was unparalleled." All stakeholders reorganized the clear benefits from rapid redevelopment and expansion of the Port. Moreover, any delays in the schedule could result in a loss of federal funds, which could have a severe impact on the Port's ability to achieve its redevelopment goals. All parties also agreed that the groundwater is not a potential drinking water source; an agreement that contributed significantly to the no further action decisions at many sites.

Because of the FISC team's cleanup accomplishments, the Port's Vision 2000 program can move forward on schedule, reaping multiple benefits for the community:

- Generate significant revenues for the bay area.
- Create about 10,000 new jobs over the next 10 years.
- Increase community access to the waterfront through a new shoreline park and new bicycle paths and pedestrian walkways.

## Challenges

The FISC Oakland team was faced with two big challenges:

- Reaching consensus that data collection and analysis for the 10 sites should focus only on meeting requirements of the planned reuse – that is, an industrial scenario.
- Obtaining consensus to use existing sediment data collected by the Port to characterize the offshore area, rather than collecting an entirely new data set; developing evaluation criteria acceptable to all parties; and ultimately obtaining approval for a no further action decision.

Consensus was reached on both proposed approaches because all parties recognized their common interests in streamlining the process while ensuring that the health and safety of future Port users is protected. Moreover, focusing the data analysis solely on the intended reuse needs is consistent with U.S. Environmental Protection Agency (EPA) policy. For the offshore area, the collaborative development of criteria to assess the data, coupled with a sound technical justification for no further action, resulted in the support of all parties.

## Cost Avoidance Measures

The FISC Oakland team achieved significant cost avoidance:

- \$27.5 dollars in costs were avoided by precluding the need for full-blown remedial design, construction, and long term monitoring at many of the sites.

## Project Successes

- Achieved successful transfer of FISC Oakland to the Port of Oakland 3 years ahead of schedule.
- Achieved substantial cost avoidance by focusing the cleanup on the known property reuse.
- Developed strong relationships among stakeholders that facilitated the decision-making process.
- Completed transfer of the property in a manner that is protective of the health of the community and the aquatic environment.

## Lessons Learned

- **Finding Common Interests.** The FISC Oakland team achieved this unprecedented milestone through more than ingenuity: it recognized the critical need to identify and build upon the common interests of all stakeholders. That common interest – the Port's Vision 2000 and all its associated benefits – provided a framework for effective collaboration.
- **Communicating Regularly.** Throughout the process, the FISC team communicated regularly with the Port to ensure that cleanup activities and objectives were compatible with the Port's redevelopment goals.
- **Presenting Sound Technical Information.** Largely because of the team's effective presentation of factual evidence, the team was able to obtain consensus on multiple no further action decisions.

# Project Highlights

- Transferred all 530 acres of FISC Oakland to the Port of Oakland three years ahead of schedule to meet Ports redevelopment objectives ("Vision 2000")
- ✓ Two-thirds of the sites approved for no further action
- ✓ Focused data collection and analysis and cleanup to address planned reuse
- ✓ Immediate and complete removal of suspected or known contaminants in lieu of protracted CERCLA process
- Achieved more than several million dollars in cost avoidance. Reaped substantial community benefits:
- Vision 2000 will generate 10,000 new jobs and significant San Francisco Bay area revenues

## Contacts

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# PACDIV NAVY UXO RESPONSE CONTRACT



## Contract Scope

- Investigations and Cleanup at Sites Potentially Contaminated with UXO or Other Ordnance Related Materials
- Navy and Marine Corps Sites, and Other Government Agency Sites Worldwide
- Includes Environmental Investigation and Cleanup

## Contract Type

The Pacific Division, Naval Facilities Engineering Command (PACDIV) awarded the Navy UXO Response Contract (NURC) to the Environmental Chemical Company.

The contract provides comprehensive expertise and immediate response capability to address potential unexploded ordnance (UXO) contamination at sites worldwide.

- \$50M Ceiling
- 1 Base Year, 4 Option Years, Awarded Jul 99
- Cost Plus Award Fee
- Indefinite Delivery/Indefinite Quantity

## Benefits

### Responsive

Able to mobilize quickly to sites worldwide. Streamlined contracting procedures used to expedite work.

### Flexible

Broad scope includes all phases of cleanup, including investigations, alternative evaluations, remediation and accelerated response. Contract type accommodates changes in requirements.

### UXO Expertise

Leverage Navy resources to ensure high quality work. Supported by the Naval Explosive Ordnance Disposal Technology Division and the Navy Ordnance Environmental Support Office.

### Innovative

Contractor incentive to use innovative technologies and approaches.

### Customer Focused

Will work closely with customers to ensure they are provided the best approach to appropriately address their requirements.

## Uncompromised Safety Program

Highly qualified safety personnel and an excellent safety record maintained.

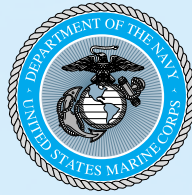
## Capabilities

- Traditional and innovative technologies and approaches
- Site assessment, characterization
- Surface/Subsurface Detection
- Underwater Detection
- UXO Access, Excavation, Identification
- Removal Technologies
- Treatment Technologies
- Transporting and Disposing Waste
- Explosive Safety Risk Assessment
- QA/QC Program

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## Naval Facilities Engineering Command's Navy & Marine Corps Site Cleanup Conference

15-17 February 2000

Embassy Suites Resort at Mandalay Beach  
2101 Mandalay Beach Road  
Oxnard, CA 93035

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FAX  
(805) 984-8339

- *Get the Washington Perspective*
- *Get the latest from our technical workgroups*
- *Find out who will be NAVFAC's Restoration Employees of the Year*
- *Get training and information you just can't get anywhere else*

The purpose of the conference is to promote information exchange and fast-track cleanup of the Navy's past hazardous waste sites.

The target audience is Remedial Project Managers (RPMs) and their supervisors involved in the cleanup of Navy and Marine Corps bases (BRAC and non-BRAC).

A CD of conference proceedings will be posted on the NAVFAC Intranet and mailed to attendees after the conference. RPMs should check with their supervisors for details on making a presentation. Only Navy and Marine Corps military and civilian personnel may register for this conference. Conference announcement and Speaker Confirmation Form documents are posted on the web at <http://enviro.nfesc.navy.mil>

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In the last edition of RPM news, Summer '99, the article entitled "SCAPS Rapid Deployment and Investigation Keeps Property Transfer on Track" did not recognize Southern Division Environmental Engineer Gabriel Magwood as the site's RPM and the article's lead author. We apologize for this oversight.

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In the last edition of RPM news, Summer 1999, the article entitled "New sampling method cuts time and costs" did not recognize Southern Division Environmental Engineer Mark Taylor as the author of the article. We apologize for this oversight.

Respectfully Submitted,

Anita W. Ortiz  
NFESC's RPM News Editor

## RPM News on the Web



Hear Ye! Hear Ye!

RPM News is now  
on the Internet!  
The Internet address is:

<http://enviro.nfesc.navy.mil/ps/newsletters/#rpm>

## Reminder

Get a head start on your next  
article for the *Spring 2000*  
*Issue of RPM News*

Please provide  
text, original photos,  
and/or drawings, no  
later than 31 January.

Thanks,  
RPM News Editor



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